



# Product Evaluation

WIN2221 | 0617

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** WIN-2221

**Effective Date:** June 1, 2017

**Re-evaluation Date:** April 2020

**Product Name:** Series AW-8450 Vinyl Awning Window, Impact Resistant

**Manufacturer:** Custom Window Systems, Inc.  
1900 SW 44th Ave.  
Ocala, FL 34474  
(352) 368-6922

## General Description:

System	Description	Label Rating	Design Pressure Rating
1	AW-8450 PVC Awning Window Flange/Fin	AP-C65 48x36	+/-65 psf

## Product Dimensions:

System	Overall Size	Operating Sash	Daylight Opening Size
1	48" x 36"	46" x 34"	42-1/2" x 30-1/2"

**Product Identification (Certification Label on Window):**

System		
1	Certification Agency	Keystone
	Manufacturer's Name or Code Name	CAR 138-727 and 138-728 Air/Water/Structural, CAR 138-271 and 138-272 Impact
	Product Name	8400 Awning Fin/Flange Frame Impact
	Test Standards	AAMA/WDMA/CSA 101/I.S.2/A440-05, ASTM E 1886/ASTM E-1996-02/05, Missile Level D

**Impact Resistance:**

System	Impact Resistant	Requirement
1	Yes	These products satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the assemblies at a height on the structure that does not exceed the design pressure rating for the assemblies.

**Acceptance of Smaller Assemblies:** Window assemblies with dimensions equal to or smaller than those specified are acceptable with the limitations specified in this report.

**Installation:**

System	Impact Resistant	Requirement
1	Type of Installation	Install and anchor the windows in accordance with drawing No. TDI-163 - Titled "8450 PVC Awning Impact". Sheets 1 through 5 of 5 dated November 12, 2015, signed and sealed on September 29, 2016, by Lucas A. Turner, P.E.
	Wall Framing	
	Fasteners	
	Fastener Location/Spacing	
	Fastener Penetration	

**Note:** Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.